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SYNOPSIS OF
ROUND ROCK HARN PROJECT PLAN
RALPH HARRIS SURVEYOR, INC
PROJECT NUMBER: 38695

This project involved siting for city placement and observing 41 City of Round Rock monuments for a HARN quality GPS/GIS network.

The survey was designed to best fit local conditions and HARN parameters.

A. Four AB order NGS stations observed.(PAC STATIONS) as identified by Their NGS POINT IDENTIFIER (PID)
   1. BM1090 EXECUTIVE AIRPARK
   2. BM1093 GEORGETOWN AIRPORT
   3. BM1110 BIRDNEST AIRPORT
   4. AB2845 TAYLOR MUNICIPAL AIRPORT
B. Two 2nd order elevation stations observed as identified by their PID.
   1. BM0796 Georgetown intersection of 2343 and South Austin street.
   2. BM0804 Round Rock, intersection of S. Main and Tower St.
C. Five CORS stations downloaded and included into solution.
   1. Austin CORS (AUS5)
   2. Houston CORS (HOU)
   3. Odessa CORS (ODS5)
   4. Arlington CORS (ARL5)
   5. San Antonio CORS (ANTO)

The survey is a two tier order survey. The initial simultaneous observations were made during the 28th and 29th of January to the AB and BM points from the three primary control points(01-041, 01-017, and 01-025) along with 2nd order level ties to 01-041 and 01-017. The three primary points provide a lock triangle of primary points with a perimeter of approximately 20.66 miles.

Subsequent observations are fast static simultaneous observations with 5 rovers and 3 fixed on the primary points to the 38 remaining points with multiple observations on the 30th and 31st of January to all points.

It is further noted all units use a fixed height tripod and the level ties were run using invar level rods.

Final post processing will be done with Leica SKI 2.3 software. The data for one of the primary stations will be forwarded to NGS for online post processing as a check of data. Post processing Was done with precise orbits, and local ionospheric models. The results indicated a 0.006 meter Final precision.

Jose A. Trevino,
RPLS NO. 5552
March 11, 2002